

**Low Fluorescence Nylon/Glass Composites for
Micro-Analytical Diagnostic Applications**

ABSTRACT OF THE DISCLOSURE

An improved combination non-luminescent microporous membrane and solid support for use in micro-analytical diagnostic applications is disclosed. Specifically, composite microarray non-luminescent slides having a microporous membrane effectively attached by covalent bonding through a surface treatment to a substrate that prepares the substrate to sufficiently, covalently bond to the non-luminescent microporous membrane formed by a phase inversion process such that the combination produced thereby is useful in microarray applications and wherein the porous non-luminescent nylon composite microarray slides are covalently bonded to a solid base member, such as, for example, a glass or Mylar microscope slide, such that the combination produced thereby is useful in microarray applications. Apparatus and methods for fabricating the non-luminescent composite microarray slides are also disclosed.